ANALYZ

```
000000   BBBBBBB              JJ   EEEEEEEEEE  XX      XX   EEEEEEEEEE
000000   BBBBBBB              JJ   EEEEEEEEEE  XX      XX   EEEEEEEEEE
00    00  BB      BB          JJ   EE           XX    XX    EE
00    00  BB      BB          JJ   EE           XX    XX    EE
00    00  BB      BB          JJ   EE             XX  XX    EE
00    00  BB      BB          JJ   EE             XX  XX    EE
00    00  BBBBBBB             JJ   EEEEEEE          XX      EEEEEEE
00    00  BBBBBBB             JJ   EEEEEEE          XX      EEEEEEE
00    00  BB      BB  JJ      JJ   EE             XX  XX    EE
00    00  BB      BB  JJ      JJ   EE             XX  XX    EE
00    00  BB      BB  JJ      JJ   EE           XX    XX    EE
00    00  BB      BB  JJ      JJ   EE           XX    XX    EE      ....
000000   BBBBBBB        JJJJJJ    EEEEEEEEEE  XX      XX   EEEEEEEEEE  ....
000000   BBBBBBB        JJJJJJ    EEEEEEEEEE  XX      XX   EEEEEEEEEE  ....
```

```
LL              IIIIII      SSSSSSSS
LL              IIIIII      SSSSSSSS
LL                II      SS
LL                II      SS
LL                II      SS
LL                II      SS
LL                II        SSSSSS
LL                II        SSSSSS
LL                II              SS
LL                II              SS
LL                II              SS
LL                II              SS
LLLLLLLLLL    IIIIII    SSSSSSSS
LLLLLLLLLL    IIIIII    SSSSSSSS
```

```
   1    0001  0  %title 'OBJEXE - ANALYZE/OBJECT and ANALYZE/IMAGE'
   2    0002  0         module objexe    (main=anl$objexe,
   3    0003  1                           ident='V04-000') = begin
   4    0004  1
   5    0005  1
   6    0006  1  !***********************************************************************
   7    0007  1  !*                                                                     *
   8    0008  1  !*  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY                            *
   9    0009  1  !*  DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.             *
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  11    0011  1  !*                                                                     *
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  13    0013  1  !*  ONLY IN ACCORDANCE WITH THE  TERMS  OF  SUCH  LICENSE  AND WITH THE *
  14    0014  1  !*  INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR  ANY  OTHER *
  15    0015  1  !*  COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY *
  16    0016  1  !*  OTHER PERSON.  NO TITLE TO AND OWNERSHIP OF  THE  SOFTWARE IS  HEREBY *
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  18    0018  1  !*                                                                     *
  19    0019  1  !*  THE INFORMATION IN THIS SOFTWARE IS  SUBJECT TO CHANGE WITHOUT NOTICE *
  20    0020  1  !*  AND  SHOULD  NOT  BE  CONSTRUED AS  A COMMITMENT BY DIGITAL EQUIPMENT *
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  25    0025  1  !*                                                                     *
  26    0026  1  !*                                                                     *
  27    0027  1  !***********************************************************************
  28    0028  1  !
  29    0029  1
  30    0030  1  !++
  31    0031  1  ! Facility:      VAX/VMS Analyze Facility, ANALYZE/OBJECT and ANALYZE/IMAGE
  32    0032  1  !
  33    0033  1  ! Abstract:      The VAX/VMS Analyze facility provides the ANALYZE command,
  34    0034  1  !                which allows the user to perform analyses of various aspects
  35    0035  1  !                of VMS.  This image supports the following categories:
  36    0036  1  !
  37    0037  1  !                     ANALYZE/IMAGE
  38    0038  1  !                     ANALYZE/OBJECT          Analyze object file contents.
  39    0039  1  !
  40    0040  1  !
  41    0041  1  ! Environment: Native, User Mode.
  42    0042  1  !
  43    0043  1  ! Author: Paul C. Anagnostopoulos, Creation Date: 6 January 1981
  44    0044  1  !
  45    0045  1  ! Modified By:
  46    0046  1  !
  47    0047  1  !    V03-001 DGB0052         Donald G. Blair         10-May-1984
  48    0048  1  !            Establish a condition handler to save an error
  49    0049  1  !            status when it is signaled so that we can return
  50    0050  1  !            the status correctly upon image exit.
  51    0051  1  !--
```

OBJEXE
V04-000

N 5
DBJEXE - ANALYZE/OBJECT and ANALYZE/IMAGE   15-Sep-1984 23:36:17   VAX-11 Bliss-32 V4.0-742   Page   2
Module Declarations   14-Sep-1984 11:52:46   [ANALYZ.SRC]OBJEXE.B32;1   (2)

```
52    0052  1  %sbttl 'Module Declarations'
54    0053  1  !
55    0054  1  ! Libraries and Requires:
56    0055  1  !
57    0056  1
58    0057  1  library 'starlet';
59    0058  1  require 'objexereq';
60    0494  1
61    0495  1  !
62    0496  1  ! Table of Contents:
63    0497  1  !
64    0498  1
65    0499  1  forward routine
66    0500  1        anl$condition_handler,
67    0501  1        anl$objexe: novalue;
68    0502  1
69    0503  1  !
70    0504  1  ! External References:
71    0505  1  !
72    0506  1
73    0507  1  external routine
74    0508  1        anl$exit_with_status,
75    0509  1        anl$image,
76    0510  1        anl$object,
77    0511  1        cli$present: addressing_mode(general),
78    0512  1        lib$establish: addressing_mode(general);
79    0513  1
80    0514  1  !
81    0515  1  ! Own Variables:
82    0516  1  !
```

```
84    0517  1  %sbttl 'ANL$OBJEXE - Main Routine'
85    0518  1  !++
86    0519  1  ! Functional Description:
87    0520  1  !     This is the main routine for this analyze image.  All we do here
88    0521  1  !     is decide which category the user has requested and dispatch to
89    0522  1  !     the appropriate routine for handling it.
90    0523  1  !
91    0524  1  ! Formal Parameters:
92    0525  1  !     none
93    0526  1  !
94    0527  1  ! Implicit Inputs:
95    0528  1  !     global data
96    0529  1  !
97    0530  1  ! Implicit Outputs:
98    0531  1  !     global data
99    0532  1  !
100   0533  1  ! Returned Value:
101   0534  1  !     Successful status returned to VMS.
102   0535  1  !
103   0536  1  ! Side Effects:
104   0537  1  !
105   0538  1  !--
106   0539  1
107   0540  1
108   0541  2  global routine anl$objexe: novalue = begin
109   0542  2
110   0543  2
111   0544  2  lib$establish(anl$condition_handler);
112   0545  2
113   0546  2  ! Just decide which category of analysis the user wants.  The default is
114   0547  2  ! ANALYZE/OBJECT.
115   0548  2
116   0549  2  if cli$present(describe('IMAGE')) then
117   0550  2          anl$image()
118   0551  2  else
119   0552  2          anl$object();
120   0553  2
121   0554  2  ! All done.  Just return a nice status to Mother VMS...
122   0555  2
123   0556  2  anl$exit_with_status();
124   0557  2
125   0558  1  end;
```

```
                                        .TITLE  OBJEXE OBJEXE - ANALYZE/OBJECT and ANALYZE/IMAG
;                                                E
                                        .IDENT  \V04-000\

                                        .PSECT  $PLIT$,NOWRT,NOEXE,2

        45  47  41  4D  49  00000 P.AAB:  .ASCII  \IMAGE\
                            00005         .BLKB   3
                  00000005  00008 P.AAA:  .LONG   5
                  00000000' 0000C         .ADDRESS P.AAB

                                        .EXTRN  ANLOBJ$_OK, ANLOBJ$_ANYTHING
                                        .EXTRN  ANLOBJ$_DATATYPE
```

OBJEXE
V04-000
OBJEXE - ANALYZE/OBJECT and ANALYZE/IMAGE
ANL$OBJEXE - Main Routine

C 6
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14-Sep-1984 11:52:46   [ANALYZ.SRC]OBJEXE.B32;1

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```
        .EXTRN  ANLOBJ$_ERRORCOUNT
        .EXTRN  ANLOBJ$_ERRORNONE
        .EXTRN  ANLOBJ$_ERRORS, ANLOBJ$_EXEFIXA
        .EXTRN  ANLOBJ$_EXEFIXAIMAGE
        .EXTRN  ANLOBJ$_EXEFIXALINE
        .EXTRN  ANLOBJ$_EXEFIXCOUNT
        .EXTRN  ANLOBJ$_EXEFIXEXTRA
        .EXTRN  ANLOBJ$_EXEFIXFIXED
        .EXTRN  ANLOBJ$_EXEFIXFLAGS
        .EXTRN  ANLOBJ$_EXEFIXG
        .EXTRN  ANLOBJ$_EXEFIXGIMAGE
        .EXTRN  ANLOBJ$_EXEFIXGLINE
        .EXTRN  ANLOBJ$_EXEFIXLIST
        .EXTRN  ANLOBJ$_EXEFIXNAME
        .EXTRN  ANLOBJ$_EXEFIXNAMEO
        .EXTRN  ANLOBJ$_EXEFIXP
        .EXTRN  ANLOBJ$_EXEFIXPSECT
        .EXTRN  ANLOBJ$_EXEFIXUP
        .EXTRN  ANLOBJ$_EXEFIXUPNONE
        .EXTRN  ANLOBJ$_EXEGST, ANLOBJ$_EXEHDR
        .EXTRN  ANLOBJ$_EXEHDRACTIVE
        .EXTRN  ANLOBJ$_EXEHDRBLKCOUNT
        .EXTRN  ANLOBJ$_EXEHDRCHANCOUNT
        .EXTRN  ANLOBJ$_EXEHDRCHANDEF
        .EXTRN  ANLOBJ$_EXEHDRDECECO
        .EXTRN  ANLOBJ$_EXEHDRDMT
        .EXTRN  ANLOBJ$_EXEHDRDST
        .EXTRN  ANLOBJ$_EXEHDRFILEID
        .EXTRN  ANLOBJ$_EXEHDRFIXED
        .EXTRN  ANLOBJ$_EXEHDRFLAGS
        .EXTRN  ANLOBJ$_EXEHDRGBLIDENT
        .EXTRN  ANLOBJ$_EXEHDRGST
        .EXTRN  ANLOBJ$_EXEHDRIDENT
        .EXTRN  ANLOBJ$_EXEHDRIMAGEID
        .EXTRN  ANLOBJ$_EXEHDRISD
        .EXTRN  ANLOBJ$_EXEHDRISDBASE
        .EXTRN  ANLOBJ$_EXEHDRISDCOUNT
        .EXTRN  ANLOBJ$_EXEHDRISDFLAGS
        .EXTRN  ANLOBJ$_EXEHDRISDGBLNAM
        .EXTRN  ANLOBJ$_EXEHDRISDNUM
        .EXTRN  ANLOBJ$_EXEHDRISDPFCDEF
        .EXTRN  ANLOBJ$_EXEHDRISDPFCSIZ
        .EXTRN  ANLOBJ$_EXEHDRISDTYPE
        .EXTRN  ANLOBJ$_EXEHDRISDVBN
        .EXTRN  ANLOBJ$_EXEHDRLINKID
        .EXTRN  ANLOBJ$_EXEHDRMATCH
        .EXTRN  ANLOBJ$_EXEHDRNAME
        .EXTRN  ANLOBJ$_EXEHDRNOPATCH
        .EXTRN  ANLOBJ$_EXEHDRPAGECOUNT
        .EXTRN  ANLOBJ$_EXEHDRPAGEDEF
        .EXTRN  ANLOBJ$_EXEHDRPATCH
        .EXTRN  ANLOBJ$_EXEHDRPATCHDATE
        .EXTRN  ANLOBJ$_EXEHDRPRIV
        .EXTRN  ANLOBJ$_EXEHDRROPATCH
        .EXTRN  ANLOBJ$_EXEHDRRWPATCH
        .EXTRN  ANLOBJ$_EXEHDRSYMDBG
        .EXTRN  ANLOBJ$_EXEHDRSYSVER
```

```
.EXTRN  ANLOBJ$_EXEHDRTEXTVBN
.EXTRN  ANLOBJ$_EXEHDRTIME
.EXTRN  ANLOBJ$_EXEHDRTYPEEXE
.EXTRN  ANLOBJ$_EXEHDRTYPELIM
.EXTRN  ANLOBJ$_EXEHDRUSERECO
.EXTRN  ANLOBJ$_EXEHDRXFER1
.EXTRN  ANLOBJ$_EXEHDRXFER2
.EXTRN  ANLOBJ$_EXEHDRXFER3
.EXTRN  ANLOBJ$_EXEHEADING
.EXTRN  ANLOBJ$_EXEPATCH
.EXTRN  ANLOBJ$_FLAG, ANLOBJ$_HEXDATA
.EXTRN  ANLOBJ$_HEXHEADING1
.EXTRN  ANLOBJ$_HEXHEADING2
.EXTRN  ANLOBJ$_INDMSGSEC
.EXTRN  ANLOBJ$_INTERACT
.EXTRN  ANLOBJ$_MASK, ANLOBJ$_OBJCPRREC
.EXTRN  ANLOBJ$_OBJDBGREC
.EXTRN  ANLOBJ$_OBJENV, ANLOBJ$_OBJEOMFLAGS
.EXTRN  ANLOBJ$_OBJEOMREC
.EXTRN  ANLOBJ$_OBJEOMSEVABT
.EXTRN  ANLOBJ$_OBJEOMSEVERR
.EXTRN  ANLOBJ$_OBJEOMSEVIGN
.EXTRN  ANLOBJ$_OBJEOMSEVRES
.EXTRN  ANLOBJ$_OBJEOMSEVSUC
.EXTRN  ANLOBJ$_OBJEOMSEVWRN
.EXTRN  ANLOBJ$_OBJEOMWREC
.EXTRN  ANLOBJ$_OBJFADPASSMECH
.EXTRN  ANLOBJ$_OBJGSDENV
.EXTRN  ANLOBJ$_OBJGSDENVFLAGS
.EXTRN  ANLOBJ$_OBJGSDENVPAR
.EXTRN  ANLOBJ$_OBJGSDEPM
.EXTRN  ANLOBJ$_OBJGSDEPMW
.EXTRN  ANLOBJ$_OBJGSDIDC
.EXTRN  ANLOBJ$_OBJGSDIDCENT
.EXTRN  ANLOBJ$_OBJGSDIDCFLAGS
.EXTRN  ANLOBJ$_OBJGSDIDCMATCH
.EXTRN  ANLOBJ$_OBJGSDIDCOBJ
.EXTRN  ANLOBJ$_OBJGSDIDCVALA
.EXTRN  ANLOBJ$_OBJGSDIDCVALB
.EXTRN  ANLOBJ$_OBJGSDLEPM
.EXTRN  ANLOBJ$_OBJGSDLPRO
.EXTRN  ANLOBJ$_OBJGSDLSY
.EXTRN  ANLOBJ$_OBJGSDPRO
.EXTRN  ANLOBJ$_OBJGSDPROW
.EXTRN  ANLOBJ$_OBJGSDPSC
.EXTRN  ANLOBJ$_OBJGSDPSCALIGN
.EXTRN  ANLOBJ$_OBJGSDPSCALLOC
.EXTRN  ANLOBJ$_OBJGSDPSCBASE
.EXTRN  ANLOBJ$_OBJGSDPSCFLAGS
.EXTRN  ANLOBJ$_OBJGSDREC
.EXTRN  ANLOBJ$_OBJGSDSPSC
.EXTRN  ANLOBJ$_OBJGSDSYM
.EXTRN  ANLOBJ$_OBJGSDSYMW
.EXTRN  ANLOBJ$_OBJGTXREC
.EXTRN  ANLOBJ$_OBJHDRIGNREC
.EXTRN  ANLOBJ$_OBJHEADING
.EXTRN  ANLOBJ$_OBJLITINDEX
```

```
        .EXTRN  ANLOBJ$_OBJLNKREC
        .EXTRN  ANLOBJ$_OBJLNMREC
        .EXTRN  ANLOBJ$_OBJMHDCREATE
        .EXTRN  ANLOBJ$_OBJMHDNAME
        .EXTRN  ANLOBJ$_OBJMHDPATCH
        .EXTRN  ANLOBJ$_OBJMHDREC
        .EXTRN  ANLOBJ$_OBJMHDRECSIZ
        .EXTRN  ANLOBJ$_OBJMHDSTRLVL
        .EXTRN  ANLOBJ$_OBJMHDVERSION
        .EXTRN  ANLOBJ$_OBJMTCCORRECT
        .EXTRN  ANLOBJ$_OBJMTCINPUT
        .EXTRN  ANLOBJ$_OBJMTCNAME
        .EXTRN  ANLOBJ$_OBJMTCREC
        .EXTRN  ANLOBJ$_OBJMTCSEQNUM
        .EXTRN  ANLOBJ$_OBJMTCUIC
        .EXTRN  ANLOBJ$_OBJMTCVERSION
        .EXTRN  ANLOBJ$_OBJMTCWHEN
        .EXTRN  ANLOBJ$_OBJPROARGCOUNT
        .EXTRN  ANLOBJ$_OBJPROARGNUM
        .EXTRN  ANLOBJ$_OBJPSECT
        .EXTRN  ANLOBJ$_OBJSRCREC
        .EXTRN  ANLOBJ$_OBJSTATHEADING1
        .EXTRN  ANLOBJ$_OBJSTATHEADING2
        .EXTRN  ANLOBJ$_OBJSTATLINE
        .EXTRN  ANLOBJ$_OBJSTATTOTAL
        .EXTRN  ANLOBJ$_OBJSYMBOL
        .EXTRN  ANLOBJ$_OBJSYMFLAGS
        .EXTRN  ANLOBJ$_OBJTIRARGINDEX
        .EXTRN  ANLOBJ$_OBJTIRCMD
        .EXTRN  ANLOBJ$_OBJTIRCMDSTK
        .EXTRN  ANLOBJ$_OBJTBTREC
        .EXTRN  ANLOBJ$_OBJTIRREC
        .EXTRN  ANLOBJ$_OBJTIRSTOIM
        .EXTRN  ANLOBJ$_OBJTIRVIELD
        .EXTRN  ANLOBJ$_OBJTTLREC
        .EXTRN  ANLOBJ$_OBJVALUE
        .EXTRN  ANLOBJ$_OBJUVALUE
        .EXTRN  ANLOBJ$_PROTECTION
        .EXTRN  ANLOBJ$_SEVERITY
        .EXTRN  ANLOBJ$_TEXT, ANLOBJ$_TEXTHDR
        .EXTRN  ANLOBJ$_NOSUCHMOD
        .EXTRN  ANLOBJ$_BADDATE
        .EXTRN  ANLOBJ$_BADHDRBLKCOUNT
        .EXTRN  ANLOBJ$_BADSEVERITY
        .EXTRN  ANLOBJ$_BADSYM1ST
        .EXTRN  ANLOBJ$_BADSYMCHAR
        .EXTRN  ANLOBJ$_BADSYMLEN
        .EXTRN  ANLOBJ$_EXEBADFIXUPEND
        .EXTRN  ANLOBJ$_EXEBADFIXUPISD
        .EXTRN  ANLOBJ$_EXEBADFIXUPVBN
        .EXTRN  ANLOBJ$_EXEBADISDS1
        .EXTRN  ANLOBJ$_EXEBADISDTYPE
        .EXTRN  ANLOBJ$_EXEBADMATCH
        .EXTRN  ANLOBJ$_EXEBADPATCHLEN
        .EXTRN  ANLOBJ$_EXEBADOBJ
        .EXTRN  ANLOBJ$_EXEBADTYPE
        .EXTRN  ANLOBJ$_EXEBADXFERO
```

```
                                                                   .EXTRN    ANLOBJ$_EXEHDRISDLONG
                                                                   .EXTRN    ANLOBJ$_EXEHDRLONG
                                                                   .EXTRN    ANLOBJ$_EXEISDLENDZRO
                                                                   .EXTRN    ANLOBJ$_EXEISDLENGBL
                                                                   .EXTRN    ANLOBJ$_EXEISDLENPRIV
                                                                   .EXTRN    ANLOBJ$_EXENOTNATIVE
                                                                   .EXTRN    ANLOBJ$_EXTRABYTES
                                                                   .EXTRN    ANLOBJ$_FIELDFIT
                                                                   .EXTRN    ANLOBJ$_FLAGERROR
                                                                   .EXTRN    ANLOBJ$_NOTOK, ANLOBJ$_OBJBADIDCMATCH
                                                                   .EXTRN    ANLOBJ$_OBJBADNUM
                                                                   .EXTRN    ANLOBJ$_OBJBADPOP
                                                                   .EXTRN    ANLOBJ$_OBJBADPUSH
                                                                   .EXTRN    ANLOBJ$_OBJBADTYPE
                                                                   .EXTRN    ANLOBJ$_OBJBADVIELD
                                                                   .EXTRN    ANLOBJ$_OBJEOMBADSEV
                                                                   .EXTRN    ANLOBJ$_OBJEOMMISSING
                                                                   .EXTRN    ANLOBJ$_OBJFADBADAVC
                                                                   .EXTRN    ANLOBJ$_OBJFADBADRBC
                                                                   .EXTRN    ANLOBJ$_OBJGSDBADALIGN
                                                                   .EXTRN    ANLOBJ$_OBJGSDBADSUBTYP
                                                                   .EXTRN    ANLOBJ$_OBJHDRRES
                                                                   .EXTRN    ANLOBJ$_OBJMHDBADRECSIZ
                                                                   .EXTRN    ANLOBJ$_OBJMHDBADSTRLVL
                                                                   .EXTRN    ANLOBJ$_OBJMHDMISSING
                                                                   .EXTRN    ANLOBJ$_OBJNONTIRCMD
                                                                   .EXTRN    ANLOBJ$_OBJNOPSC
                                                                   .EXTRN    ANLOBJ$_OBJNULLREC
                                                                   .EXTRN    ANLOBJ$_OBJPOSPACE
                                                                   .EXTRN    ANLOBJ$_OBJPROMINMAX
                                                                   .EXTRN    ANLOBJ$_OBJPSCABSLEN
                                                                   .EXTRN    ANLOBJ$_OBJRECTOOBIG
                                                                   .EXTRN    ANLOBJ$_OBJTIRRES
                                                                   .EXTRN    ANLOBJ$_OBJUNDEFENV
                                                                   .EXTRN    ANLOBJ$_OBJUNDEFLIT
                                                                   .EXTRN    ANLOBJ$_OBJUNDEFPSC
                                                                   .EXTRN    ANALYZE$_FACILITY
                                                                   .EXTRN    ANL$EXIT_WITH_STATUS
                                                                   .EXTRN    ANL$IMAGE, ANL$OBJECT
                                                                   .EXTRN    CLI$PRESENT, LIB$ESTABLISH

                                                                   .PSECT    $CODE$,NOWRT,2

                                        0000 00000                 .ENTRY    ANL$OBJEXE, Save nothing                        ; 0541
                               0000V  CF  9F 00002                 PUSHAB    ANL$CONDITION_HANDLER                           ; 0544
             00000000G  00             01  FB 00006                CALLS     #1, LIB$ESTABLISH
                               0000'  CF  9F 0000D                 PUSHAB    P.AAA                                          ; 0549
             00000000G  00             01  FB 00011                CALLS     #1, CLI$PRESENT
                               07             50  E9 00018         BLBC      R0, 1$
                   0000G  CF             00  FB 0001B              CALLS     #0, ANL$IMAGE                                  ; 0550
                                        05  11 00020               BRB       2$
                   0000G  CF             00  FB 00022 1$:          CALLS     #0, ANL$OBJECT                                 ; 0552
                   0000G  CF             00  FB 00027 2$:          CALLS     #0, ANL$EXIT_WITH_STATUS                       ; 0556
                                        04 0002C                   RET                                                     ; 0558
```

; Routine Size: 45 bytes,   Routine Base: $CODE$ + 0000

OBJEXE
VO4-000

OBJEXE - ANALYZE/OBJECT and ANALYZE/IMAGE
ANL$OBJEXE - Main Routine

G 6
15-Sep-1984 23:36:17
14-Sep-1984 11:52:46

VAX-11 Bliss-32 V4.0-742
[ANALYZ.SRC]OBJEXE.B32;1

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```
: 127       0559  1 %sbttl 'ANL$CONDITION_HANDLER - Save the ANL$WORST_ERROR status'
: 128       0560  1 !++
: 129       0561  1 !  Functional Description:
: 130       0562  1 !       There are 2 ways that errors are handled in ANALYZE/OBJ and
: 131       0563  1 !       ANALYZE/IMAGE.  In general, ANL$FORMAT_ERROR is called whenever
: 132       0564  1 !       an error is discovered in the object/image file.  LIB$SIGNAL
: 133       0565  1 !       is called for most other sorts of errors.  In order to keep
: 134       0566  1 !       track of the worst error that has occurred, since there are 2
: 135       0567  1 !       error reporting mechanisms, we need to save the worst error
: 136       0568  1 !       status both in this condition handler (relevant for calls to
: 137       0569  1 !       lib$signal) and in anl$format_error.
: 138       0570  1 !
: 139       0571  1 !  Formal Paramters:
: 140       0572  1 !       signal_args = Address of signal argument list
: 141       0573  1 !       mechanism_args = Address of mechanism array
: 142       0574  1 !
: 143       0575  1 !  Implicit Inputs:
: 144       0576  1 !       none
: 145       0577  1 !
: 146       0578  1 !  Returned Value:
: 147       0579  1 !       ss$_resignal    Continue to search call frames.
: 148       0580  1 !
: 149       0581  1 !  Side Effects:
: 150       0582  1 !       anl$worst_error is updated with highest severity error.
: 151       0583  1 !
: 152       0584  1 !---
: 153       0585  1
: 154       0586  2 global routine anl$condition_handler (signal_args, mechanism_args) = begin
: 155       0587  2
: 156       0588  2 map
: 157       0589  2     signal_args:        ref bblock,     ! Address of signal argument list
: 158       0590  2     mechanism_args:     ref bblock;     ! Address of mechanism argument list
: 159       0591  2
: 160       0592  2 external
: 161       0593  2     anl$worst_error;                    ! the worst error status we've found so far
: 162       0594  2
: 163       0595  2 local
: 164       0596  2     code:               bblock [long]; ! Condition code (longword)
: 165       0597  2
: 166       0598  2 code =  .signal_args [chf$l_sig_name];               ! Get condition code
: 167       0599  2 if   severity_level (.code) gtr
: 168       0600  3     severity_level (.anl$worst_error)               ! If higher than watermark
: 169       0601  2 then anl$worst_error = .code;                       !  -then set new worst error
: 170       0602  2
: 171       0603  2 return ss$_resignal;
: 172       0604  2
: 173       0605  1 end;
```

```
                                                      .EXTRN  ANL$WORST_ERROR

                                      000C 00000      .ENTRY  ANL$CONDITION_HANDLER, Save R2,R3        ; 0586
                            50    04  AC  D0 00002     MOVL    SIGNAL_ARGS, R0                         ; 0598
                            53    04  AO  D0 00006     MOVL    4(R0), CODE
                            50        53  D0 0000A     MOVL    CODE, TMP_CODE                          ; 0599
              51        50          03  00  EF 0000D   EXTZV   #0, #3, TMP_CODE, R1
```

```
                50              50          01           00 EF 00012          EXTZV      #0, #1, TMP_CODE, R0          ;
                                            50           04 C4 00017          MULL2      #4, R0                       :
                                            51           50 C2 0001A          SUBL2      R0, R1                       :
                                            51           03 C0 0001D          ADDL2      #3, R1                       :
                52              50           50      0000G CF D0 00020         MOVL       ANL$WORST_ERROR, TMP_CODE    :  0600
                50              50           03           00 EF 00025          EXTZV      #0, #3, TMP_CODE, R2         :
                                            01           00 EF 0002A          EXTZV      #0, #1, TMP_CODE, R0         :
                                            50           04 C4 0002F          MULL2      #4, R0                       :
                                            52           50 C2 00032          SUBL2      R0, R2                       :
                                            50      03   A2 9E 00035          MOVAB      3(R2), R0                    :
                                            50           51 D1 00039          CMPL       R1, R0                       :
                                                         05 15 0003C          BLEQ       1$                          :
                              0000G CF                   53 D0 0003E          MOVL       CODE, ANL$WORST_ERROR        :  0601
                                            50      0918 8F 3C 00043 1$:      MOVZWL     #2328, R0                    :  0603
                                                         04 00048             RET                                    :  0605
```

; Routine Size: 73 bytes,   Routine Base: $CODE$ + 002D

; 174   0606 1
; 175   0607 0 end eludom

                        PSECT SUMMARY

:
:   Name   Bytes   Attributes
:
: $PLIT$ 16   NOVEC,NOWRT, RD ,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
: $CODE$ 118   NOVEC,NOWRT, RD , EXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)

                        Library Statistics

:
:   -------- Symbols --------   Pages   Processing
:   File   Total   Loaded   Percent   Mapped   Time
:
: _255DUA28:[SYSLIB]STARLET.L32;1   9776   12   0   581   00:01.0

:   COMMAND QUALIFIERS

:
:   BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS$:OBJEXE/OBJ=OBJ$:OBJEXE MSRC$:OBJEXE/UPDATE=(ENH$:OBJEXE)

: Size: 118 code + 16 data bytes
: Run Time: 00:06.6
: Elapsed Time: 00:09.1

; Lines/CPU Min: 5518
; Lexemes/CPU-Min: 15227
; Memory Used: 113 pages
; Compilation Complete